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VIDEO GAMING MACHINE

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(56) Prior Art Documents  
AU 630587 79361/91 G07F 17/32  
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(57) Claim

1. A gaming machine having a video display screen, a computer controller for controlling screen displays thereon and game play of cards, input control means linked to said computer controller which are user operable to initiate game play at a cost to the player and to interact with the game, and a software program controlling said computer controller, and responsive to user operations received from the input control means via the computer controller, said software being operable during game play to place the machine in a mode following a win providing game winnings which will provide an option to stake game winnings to attempt a selection of one of the suits of cards, and if said selection results in a correct suit the winnings will be increased, and if the selected suit is not correct but the colour of the suit is the same, winnings less than if a correct suit results will be achieved, and if the selected suit and the colour of the suit is not the same, the game winnings are lost.

## VIDEO GAMING MACHINE

### Field of the Invention

This invention relates to a video gaming machine and relates particularly to a gaming machine that is  
5 appealing to players.

### Description of the prior art

Video gaming (or poker) machines have considerable popularity through all states of Australia, with quite substantial amounts of money wagered on these  
10 machines. There is a growing tendency for state governments to legalise the use of gaming machines by licensing operators, with concomitant revenue gains through taxation of monies invested. The licensed operation of gaming machines is the subject of state legislation and  
15 regulation. This regulation most always dictates a maximum percentage payout for a gaming machine. For example in Victoria, a minimum of 87% of monies invested must be returned as winnings, and manufacturers of gaming machines therefore must design their machines around these  
20 regulatory controls.

Because of the nature of the gaming machine market there is intense competition between manufacturers to supply the various existing and new venues. When it comes to selecting a supplier of gaming machines, the  
25 operator of venues will often pay close attention to which particular games are the most popular with their patrons. Therefore, it is in the interest of gaming machine manufacturers to devise games which are popular with players, and in that way improve their chances of obtaining  
30 additional sales.

Many various strategies have been tried in the past to make games more enticing to players, including the commonly known double-up feature whereby, if a player wins a particular game, the player can then risk the winnings of that game in a double-or-nothing mode in which they gamble on a subsequent, and often different, game such as whether a red or black card will be the next card drawn. Other techniques adopted in the past have been to provide complexity in the numbering and combinations of indicia which would result in a win, thereby hoping to convince the player that there is a greater chance of winning and to keep their interest in a particular game.

Object and Statement of the Invention

It is an object of the present invention to attempt to provide an improved gaming machine. Therefore, in accordance with a first broad aspect of the present invention there is provided a gaming machine having a video display screen, a computer controller for controlling screen displays thereon and game play of cards, input control means which are user operable to initiate game play at a cost to the player and to interact with the game, and a software program controlling said computer controller, said software being operable during game play to place the machine in a mode following a win providing game winnings which will provide an option to stake game winnings to attempt a selection of one of the suits of cards, and if said selection results in a correct suit the winnings will be increased, and if the selected suit is not correct but the colour of the suit is the same, winnings less than if a correct suit results will be achieved, and if the selected suit and the colour of the suit is not the same, the game winnings are lost.

Most preferably the gaming machine has its software configured so the game is poker.

It is further preferred that the software is configured so the winnings for a correct suit result in a

doubling or higher dividend on the game winnings.

Description of Example of Preferred Embodiment

In order that the invention may be more clearly ascertained, an example of an embodiment will now be described.

The methodology of the embodiment will be described, and it is to be understood that it is within the capabilities of the non-inventive worker in the art to introduce the methodology on any standard microprocessor-based gaming machine by means of appropriate programming. The embodiment will be described with reference to the card game of draw poker as will be implemented on a video gaming machine. It is to be understood that the methodology could be applied to a number of other card games that might be played on a video gaming machine.

In the preferred embodiment a game of 52 card draw poker is played. The probability of achieving a winning hand in a "two-draw" hand of draw poker and the prize units allocated for each win is given in Table 1. By "second-draw" it is meant that a player receives a first draw of five cards and can retain a number of cards that are favourable, then have the discarded cards re-drawn as the second draw. Table 2 indicates the assumed strategy adopted by a player after a first draw.

From table 1, it can be determined that the expected return is obtained by multiplying the entries in the second and third columns and adding the results. In the present case, the return  $R = 80.25\%$ .

In order to enhance enjoyment for the player, the draw poker game has a special feature, whereby if the result of a player of a hand is a full house or some other determined prize winning combination then a second mode of operation is entered, in which the player is able to provide an option to stake the game winnings to attempt a selection of one of the suits of cards, and if that selection results in a correct suit his winnings will be

increased. If the selected suit is not correct but the colour of the suit is the same as that selected, winnings less than if a correct suit results will be achieved. Further, if the selected suit and the colour of the suit is not the same, the game winnings are then lost.

Each time a player chooses to play the game a new shuffled deck of cards is used.

The player has the choice of either selecting a colour or a suit therefore the return must be calculated separately for each case.

Total number of colours = 2

ie, Red, Black

Probability of choosing the correct colour = 0.5

Total number of suits = 4

ie, Hearts, Clubs, Diamonds, Spades.

Probability of choosing the correct suit = 0.25

Therefore:

Pr (Red) = 0.5

Pr (Black) = 0.5

Pr (Heart) = 0.25

Pr (Club) = 0.25

Pr (Diamond) = 0.25

Pr (Spade) = 0.25

#### Choosing a Colour

If the player chooses to select a colour, the probability given to each of the outcomes, choosing the correct colour or not, is 0.5. Depending on the outcome the player will either increase his winning such as double his money or lose it all. The return is calculated as follows:

$$\begin{aligned}\text{Return} &= \text{probability of outcome} \times \text{prize} \times 100/1\% \\ &= 0.5 \times 2 \text{ (or other factor)} \times 100/1\% \\ &= 100\%\end{aligned}$$

Thus the return to the player is 100%

#### Choosing a Suit

When the player chooses a suit he may win by either, the suit matching or if the suit doesn't match the player may win if the colour of the suit matches.

There are three (3) possible outcomes:-

1. Correct suit (therefore correct colour).
2. Incorrect suit but correct colour.
3. Incorrect colour and incorrect suit.

The probabilities and prizes for each of the outcomes are shown in the table below, with the return calculated by multiplying the entries in the second and third columns and then adding the results.

OUTCOME	PROB	PRIZE	RETURN
CORRECT SUIT	0.25	3	75.00%
CORRECT COLOUR ONLY	0.25	1	25.00%
INCORRECT SUIT AND INCORRECT COLOUR	0.5	0	0.00%

The return of the double up feature when choosing a suit is 100%.

In the case of legislation in place in Victoria the minimum payout required of gaming machines is 87%. Hence, that statutory requirement can be met whilst still providing increased enjoyment for players of the game as when this feature of selecting colour suit is added to the basic game payout, the payout exceeds the statutory minimum limit.

As a specific example, if a player has won ten credits from a main game win and enters into the optional special feature, he is offered a choice of what suit a card displayed face down might be. If he chooses hearts and is correct, he can receive an increased prize or credit, such as 30 credits. If the suit was diamonds he would receive his money back as a compensatory payment for being wrong in the suit selection but correct in the colour (both diamonds and hearts are red). If the card facing down contains

Thus, it can be seen that the present invention provides additional player enhancing features in a video gaming machine which can result in increased pleasure in play and also increased economic benefit to the manufacturer of the gaming machine whilst still satisfying the statutory requirement as to the percentage return of monies invested.

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Table 1

Hand	Prize	Probability
Royal Straight Flush	500	$0.104 \times 10^{-4}$
Straight Flush	100	$0.924 \times 10^{-4}$
Four of a kind	33	$0.231 \times 10^{-2}$
Full House	10	$0.111 \times 10^{-1}$
Flush	5	$0.135 \times 10^{-1}$
Straight	4	$0.200 \times 10^{-1}$
Three of a kind	3	$0.705 \times 10^{-1}$
Two pairs	2	0.121



Table 2: First Draw Poker Strategy in Order of Precedence

Hand	Action
Royal Straight Flush	Retain all 5 cards
Straight Flush	Retain all 5 cards
Four of a kind	Retain all 5 cards
Full House	Retain all 5 cards
Flush	Retain all 5 cards
Straight	Retain all 5 cards
Three of a kind	Retain the 3, discard other 2
Two pairs	Retain the 2 pairs, discard other 1
Four to Royal Straight Flush	Retain the 4, discard other 1
Four to Straight Flush	Retain the 4, discard other 1
Any pair	Retain the pair, discard other 3
Four to Straight	Retain the 4, discard other 1
Four to Flush	Retain the 4, discard other 1
Three to Royal Straight Flush	Retain the 3, discard other 2
Three to Straight Flush	Retain the 3, discard other 2
Three to Straight	Retain the 3, discard other 2
Three to Flush	Retain the 3, discard other 2
Any other hand	Discard all 5 cards

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A gaming machine having a video display screen, a computer controller for controlling screen displays thereon and game play of cards, input control means linked to said computer controller which are user operable to initiate game play at a cost to the player and to interact with the game, and a software program controlling said computer controller, and responsive to user operations received from the input control means via the computer controller, said software being operable during game play to place the machine in a mode following a win providing game winnings which will provide an option to stake game winnings to attempt a selection of one of the suits of cards, and if said selection results in a correct suit the winnings will be increased, and if the selected suit is not correct but the colour of the suit is the same, winnings less than if a correct suit results will be achieved, and if the selected suit and the colour of the suit is not the same, the game winnings are lost.

2. A gaming machine as claimed in claim 1 wherein said software is configured so the game is poker.

3. A gaming machine as claimed in claim 1 or claim 2 wherein said software is configured so the winnings for a correct suit result in a doubling or higher dividend on the game winnings.

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# ABSTRACT

A video gaming machine is provided which has a feature that after a win, a player can stake the winnings on a further game where the player attempts to select one of the suits of cards. If this further game results in a win, the winnings are increased. If the further game does not result in a win but the colour of the suit is the same the winnings are increased but less than that for the correct suit. If the suit or the colour of the suit is not correct the game winnings are lost.